

IN THE SPECIFICATION**BEST AVAILABLE COPY**Page 8, line 19

Other optical pick-up of the present invention comprises a supporting shaft formed of ceramics containing zirconia, and a bearing part formed of a molded product of a liquid crystal resin composition or a polyphenylene ether resin composition having flexural elastic modulus of 10 GPa or more. With the above-described combination of the supporting shaft and the lens holder including the bearing part, the supporting shaft and the bearing part can be worked with high precision. The ~~deflexion~~ deflection and vibration of the lens holder upon driving control can be prevented. Thus, the gap between the supporting shaft and the bearing hole, i.e., the fit-on gap therebetween can be allowed to be 6 μm or less. Consequently, the objective lens can be supported at high dimensional accuracy, and thus optical beams can be focused on a high-density recording track. Since the resin material is the liquid resin composition or the polyphenylene ether resin composition, the resin material has low melt viscosity, and excellent moldability. Accordingly, there can be provided the lens holder that produces less burrs upon molding, and has excellent injection moldability.

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The PAN carbon fiber can be obtained by heating and fixing acrylic fiber such as polyacrylonitrile. It is preferable that the PAN carbon fiber have tensile strength of 2500 to 3500 MPa, and tensile elastic modulus of 240 to 500 GPa. If values of the tensile strength and the tensile elastic modulus are below the respective lower limit, elasticity becomes poor to increase ~~deflexion~~ deflection, resulting in lowered reading accuracy. If these values exceed the respective upper limits, moldability is decreased, and the supporting shaft that is a mate for sliding may be attacked and worn.

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In order for the sliding contact surface of the supporting shaft and the bearing part both made of the ceramics containing zirconia to have a center line average roughness (Ra) of ~~3mm~~ 3 μm or less, it is necessary that the porosity of the ceramics containing zirconia is not more than 5%. As a method for decreasing the porosity, zirconia powder containing the stabilizer is processed by a normal pressure sintering method, a cold isostatic pressure press, a hot isostatic

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pressure press (HIP) or a hot press sintering method. The zirconia powder can be obtained by a chemical wet synthesizing method such as a co-precipitation method, a hydrolytic method or the like.

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When the fixed template 11 and the moving template 12 are abutted to close the injection mold 10, the core pin 14 can be held held in the cavity 13 with the core pin 14 in the fixed template 11 unconstrained. The resin material is injected into the cavity 13 via the gate 15 between the cavity 13b and the core pin 14. As the gate 15 is disposed at around a tip of the core pin 14 and at a perimeter of the bearing part, the resin material injected flows uniformly into the cavity 13b, 13a, a lens receiving surface and a bearing part of the lens holder are vertical, and a turbulent flow of the resin is not produced at a bridge portion inside the cavity.